Activity 1

```
C:\Users\Larry>docker run ubuntu:16.04 /bin/echo 'Hello world!'
'Hello world!'

C:\Users\Larry>docker ps
CONTAINER ID   IMAGE     COMMAND    CREATED    STATUS    PORTS     NAMES

C:\Users\Larry>docker ps -a
CONTAINER ID   IMAGE          COMMAND              CREATED        STATUS                 PORTS     NAMES
4fa5c70a96fa   ubuntu:16.04   "/bin/echo 'Hello wo…"  3 minutes ago  Exited (0) 3 minutes ago          elastic_albattani
89c5f480f9ef   ubuntu         "/bin/bash"          8 days ago     Exited (0) 8 days ago             thirsty_volhard
b9d067f2c4e2   ubuntu         "/bin/bash"          8 days ago     Exited (0) 8 days ago             competent_meninsky
84759fed2b3d   hello-docker   "docker-entrypoint.s…"  8 days ago     Exited (0) 8 days ago             eager_meninsky
```

Initial container runs. Containers from Week 8 lecture material can also be seen.

```
C:\Users\Larry>docker ps -a
CONTAINER ID   IMAGE          COMMAND       CREATED        STATUS                PORTS     NAMES
e08975f37c9e   ubuntu:16.04   "/bin/bash"   7 seconds ago  Exited (0) 6 seconds ago        thirsty_hermann

C:\Users\Larry>docker run -it ubuntu:16.04 /bin/bash
root@437d5a941707:/# pwd
/
root@437d5a941707:/# ls
bin  boot  dev  etc  home  lib  lib64  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@437d5a941707:/# exit
exit

C:\Users\Larry>docker run -d ubuntu:16.04 /bin/sleep 3600
1e96d713ab0aa0474731765dbac34a8e850d0fdf4c46ec7a74e640e59e272e74

C:\Users\Larry>docker ps
CONTAINER ID   IMAGE          COMMAND            CREATED        STATUS         PORTS     NAMES
1e96d713ab0a   ubuntu:16.04   "/bin/sleep 3600"  6 seconds ago  Up 5 seconds             kind_hertz

C:\Users\Larry>docker exec -it 1e96 /bin/bash
root@1e96d713ab0a:/# ps aux
USER         PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root           1  0.0  0.0   4372   660 ?        Ss   12:55   0:00 /bin/sleep 3600
root           7  0.1  0.0  18232  3376 pts/0    Ss   12:56   0:00 /bin/bash
root          18  0.0  0.0  34420  2864 pts/0    R+   12:56   0:00 ps aux
root@1e96d713ab0a:/# exit
exit

C:\Users\Larry>docker ps
CONTAINER ID   IMAGE          COMMAND            CREATED          STATUS              PORTS     NAMES
1e96d713ab0a   ubuntu:16.04   "/bin/sleep 3600"  About a minute ago  Up About a minute           kind_hertz
```

Use of -it flag for interactive use, -d for detached mode, exec to 'SSH' into running container
with sleep command

```
C:\Users\Larry>docker stop 1e96
1e96

C:\Users\Larry>docker ps -a
CONTAINER ID   IMAGE          COMMAND           CREATED         STATUS                     PORTS     NAMES
1e96d713ab0a   ubuntu:16.04   "/bin/sleep 3600"  3 minutes ago   Exited (137) 2 minutes ago           kind_hertz
437d5a941707   ubuntu:16.04   "/bin/bash"        4 minutes ago   Exited (0) 4 minutes ago             infallible_blac
k
e08975f37c9e   ubuntu:16.04   "/bin/bash"        5 minutes ago   Exited (0) 5 minutes ago             thirsty_hermann

C:\Users\Larry>docker ps
CONTAINER ID   IMAGE    COMMAND    CREATED    STATUS    PORTS    NAMES

C:\Users\Larry>docker rm $(docker ps -aq)
unknown shorthand flag: 'a' in -aq
See 'docker rm --help'.
```

Exit end deletion. Windows Command Prompt did not appear to support the remove all shortcut.

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Larry> docker rm $(docker ps -a -q)
1e96d713ab0a
437d5a941707
e08975f37c9e
PS C:\Users\Larry> docker ps -a
CONTAINER ID   IMAGE    COMMAND    CREATED    STATUS    PORTS    NAMES
PS C:\Users\Larry> docker run --rm ubuntu:16.04 /bin/echo 'I open the door, I close the door. The door. Bow.'
I open the door, I close the door. The door. Bow.
PS C:\Users\Larry> ps -a
Get-Process : A parameter cannot be found that matches parameter name 'a'.
At line:1 char:4
+ ps -a
+    ~~
    + CategoryInfo          : InvalidArgument: (:) [Get-Process], ParameterBindingException
    + FullyQualifiedErrorId : NamedParameterNotFound,Microsoft.PowerShell.Commands.GetProcessCommand

PS C:\Users\Larry> docker ps -a
CONTAINER ID   IMAGE    COMMAND    CREATED    STATUS    PORTS    NAMES
PS C:\Users\Larry>
```

Windows PowerShell on the other hand supported the remove all shortcut, and all containers were removed. --rm flag used to immediately remove container upon exit.